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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶: C12N 7/00, 7/04, 15/00, A61K 39/21, 39/205	A1	(11) International Publication Number: WO 99/02657 (43) International Publication Date: 21 January 1999 (21.01.99)
(21) International Application Number: PCT/US98/14527 (22) International Filing Date: 10 July 1998 (10.07.98) (30) Priority Data: 60/052,366 11 July 1997 (11.07.97) US (71) Applicant (for all designated States except US): YALE UNIVERSITY [US/US]; Office of Cooperative Research, 155 Whitney Avenue, New Haven, CT 06520-8336 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): ROSE, John, K. [US/US]; 21 Shell Beach Road, Guilford, CT 06437 (US). SCHELL, Mathias [DE/US]; 1322 Town Walk Drive, Hamden, CT 06518 (US). JOHNSON, Erik, E. [US/US]; Apartment 3, 89 Linden Street, New Haven, CT 06511 (US). (74) Agent: KRINSKY, Mary, M.; 88 Prospect Street, New Haven, CT 06511-3797 (US).		(81) Designated States: AU, CA, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>
(54) Title: RHABDOVIRUSES WITH REENGINEERED COATS (57) Abstract Replication-competent recombinant rhabdoviruses that lack a functional glycoprotein gene and express at least one foreign polypeptide such as a cellular receptor for another virus in their viral envelopes are useful in the treatment of pathogenic viruses. In one embodiment, a recombinant vesicular stomatitis virus (VSV) lacking its glycoprotein (G) gene and expressing instead the HIV receptor and a coreceptor is employed in a method for treating persons infected with HIV. The recombinant virus is defective for entry into normal cells but is able to control HIV infection in a T cell line by replicating in, and killing, HIV-infected cells.		

USSN: 09/083,793

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